CLAIMS

What Is Claimed Is:

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A method for the modification of a layer of a tissue comprising the steps of: 1

applying to a section of the tissue a substance having a high absorption of at least one frequency band of electromagnetic radiation

illuminating the covered section of the targeted tissue with electromagnetic 4 radiation of said at least one frequency band of electromagnetic radiation, said radiation energy is thereby absorbed by the high absorption substance covering the target tissue 6 surface and is thereby converted to thermal energy sufficient to bring about irreversible 7 8 modification in the skin properties.

- The method as in claim 1 whetein said high abscrption substance is a suspension 2. 1 2 containing high absorbing particles of a dimension larger then 50 microns.
- The method as in claim 1 wherein said high absorption substance is a suspension 1 3. 2 containing high absorbing particles of a dimension larger than 30 microns
- The method as in claim 1 wherein said high absorption substance is a suspension 1 4. 2 containing high absorbing particles of a dimension larger than 0.1 microns
- The method as in claim 1 wherein said high absorption substance is a thin film 1 5. containing high absorbing particles 2
- The process as in claim 3 wherein said high absorption substance is deposited in a 1 6. thin film containing high absorbing particles of density which assures that at least 60% of 2 the light energy is intercepted and absorbed by the particles. 3
- The process as in claim 5 wherein said high absorption substance is deposited in a 1 7. thin film containing high absorbing particles of density which assures that at least 40% of 2 the light energy is intercepted and absorbed by the particles. 3
- 1 8. The process as in claim 5 wherein said high absorption substance is deposited in a thin film containing high absorbing particles of density which assures that at least 20% of 2 the light energy is intercepted and absorbed by the particles. 3
- The process as in claim 1 wherein said high absorption substance is deposited in a 1 thin film containing high absorbing particles of density corresponding to the rate of 2 3 energy deposition per unit area so that the energy deposited in the skin is sufficient for the removal of at no more than 70% of the epidermis and the energy deposited in the skin 4

- allows permanent multification of the skin to a depth of no more than 100 micrometer
- 6 below said depth of sue removal.
- 1 10. The method of claim 1 where said high absorption substance is a paper containing
- 2 highly absorbing particles.
- 1 11. The method of claim 1 where said high absorption substance is made of agar
- 2 containing highly absorbing particles
- 1 12. The method of claim 1 where said high absorption substance is a mixture
- 2 containing highly absorbing particles.
- 1 13. The method of claim 1 where said high absorption substance is a layer of thermal
- 2 insulator containing highly absorbing particles.
- 1 14. The metho of claim 1 where said high absorption substance is a layer of thermal
- 2 conductor containing highly absorbing particles
- 1 15. The method of claim 1/where said high absorption substance is a metallic layer
- 2 containing highly absorbing particles.
- 1 16. The method of claim/1 wherein said high absorption substance is applied to a film
- of material on the side facing the energy source and not to the side which is in contact
- 3 with the skin
- 1 17. The method of claim 1 wherein said high absorption substance is applied to a film
- of material on the side facing the energy source and not to the side which is in contact
- with the skin, and the film is made of thin layer allowing transmittal of at least some
- 4 thermal energy to the target material
- 1 18. The method of claim 1 wherein said high absorption substance is applied to a film
- of material on the side facing the energy source and not to the side which is in contact
- with the target material, and, The film is made of thermally conducting material
- 1 19. The method of claim 1 wherein said high absorption substance is mixed with
- 2 grains of conducting material to form a film of thermally conducting optically
- 3 absorbing mix.
- 1 20. The method as in claim 5 wherein said high absorption substance is deposited in a
- thin film containing high absorbing particles of density which assures that at least 80% of
- the light energy is intercepted and absorbed by the particles.